

09890479

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Welcome to STN International! Enter x:x

LOGINID: ssspta1613sxw

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TERMINAL (ENTER 1, 2, 3, OR ?):2

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FILE 'HOME' ENTERED AT 20:03:18 ON 11 JUL 2003

=> fil reg
COST IN U.S. DOLLARS
SINCE FILE ENTRY
SESSION
0.21 0.21
FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 20:03:25 ON 11 JUL 2003
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 10 JUL 2003 HIGHEST RN 546060-09-7
DICTIONARY FILE UPDATES: 10 JUL 2003 HIGHEST RN 546060-09-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

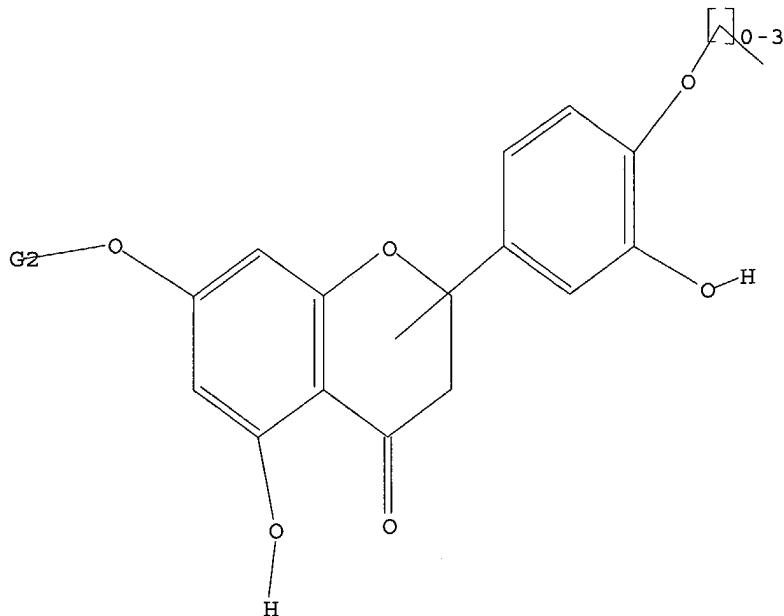
Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>
Uploading 09890479b.str

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR

09890479



G1 H, S, P

G2 S, P

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam
SAMPLE SEARCH INITIATED 20:03:44 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 144 TO ITERATE

100.0% PROCESSED 144 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2161 TO 3599
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 20:03:47 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3243 TO ITERATE

100.0% PROCESSED 3243 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

L3 2 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST ENTRY SESSION
148.15 148.36

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FILE 'CAPLUS' ENTERED AT 20:03:51 ON 11 JUL 2003
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FILE COVERS 1907 - 11 Jul 2003 VOL 139 ISS 3
FILE LAST UPDATED: 10 Jul 2003 (20030710/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13 full
L4 1 L3

=> d 14 ibib abs hitstr

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2000:535149 CAPLUS
DOCUMENT NUMBER: 133:144903
TITLE: Hesperitin pro-forms with enhanced bioavailability, their preparation, and their therapeutic use
INVENTOR(S): Zielinski, Jan E.
PATENT ASSIGNEE(S): Zielinski Laboratory, USA
SOURCE: PCT Int. Appl., 23 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000044757	A1	20000803	WO 2000-US1923	20000126
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2358967	AA	20000803	CA 2000-2358967	20000126
EP 1155021	A1	20011121	EP 2000-904573	20000126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

09890479

JP 2002535410 T2 20021022 JP 2000-596013 20000126
PRIORITY APPLN. INFO.: US 1999-117567P A2 19990127
US 1999-118198P A2 19990201
WO 2000-US1923 W 20000126

OTHER SOURCE(S): MARPAT 133:144903

AB Hydrophilic and lipophilic hesperitin pro-forms are provided. A pharmaceutical compn. is provided which is suitable for topical or oral administration in an individual, the compn. comprising a hydrophilic hesperitin pro-form and a pharmaceutically acceptable carrier. A pharmaceutical compn. is also provided which is suitable for topical or oral administration in an individual, the compn. including a lipophilic hesperitin pro-form and a pharmaceutically acceptable carrier. A method is provided for treating a subject having or at risk of having a cell proliferative disorder, including administering to the subject a therapeutically effective amt. of a hesperitin pro-form.

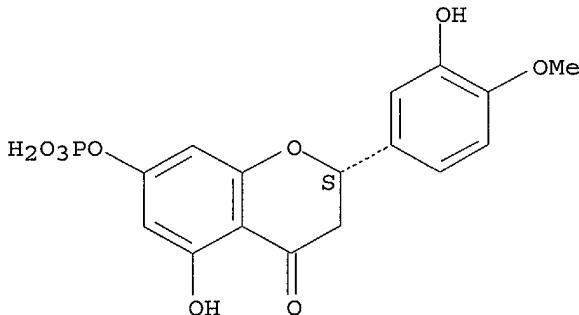
IT 287109-33-5P 287109-35-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(hesperitin pro-forms with enhanced bioavailability, prepn., and therapeutic use)

RN 287109-33-5 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5-hydroxy-2- (3-hydroxy-4-methoxyphenyl) -7- (phosphonoxy) -, monosodium salt, (2S) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



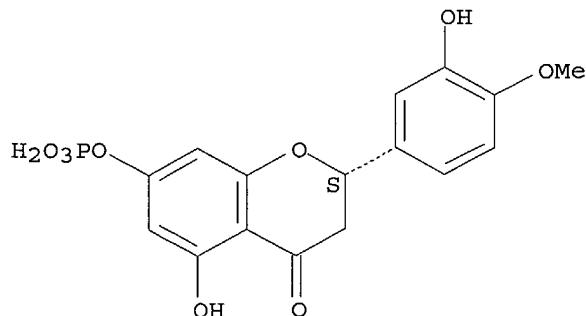
● Na

RN 287109-35-7 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5-hydroxy-2- (3-hydroxy-4-methoxyphenyl) -7- (phosphonoxy) -, (2S) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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REFERENCE COUNT:

2

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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Welcome to STN International! Enter x:x

LOGINID: ssspta1613sxw

PASSWORD :

TERMINAL (ENTER 1, 2, 3, OR ?):2

Enter NEWS followed by the item number or name to see news on that specific topic.

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research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

FILE 'HOME' ENTERED AT 20:05:23 ON 11 JUL 2003

FILE 'REGISTRY' ENTERED AT 20:05:31 ON 11 JUL 2003
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STRUCTURE FILE UPDATES: 10 JUL 2003 HIGHEST RN 546060-09-7
DICTIONARY FILE UPDATES: 10 JUL 2003 HIGHEST RN 546060-09-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See **HELP CROSSOVER** for details.

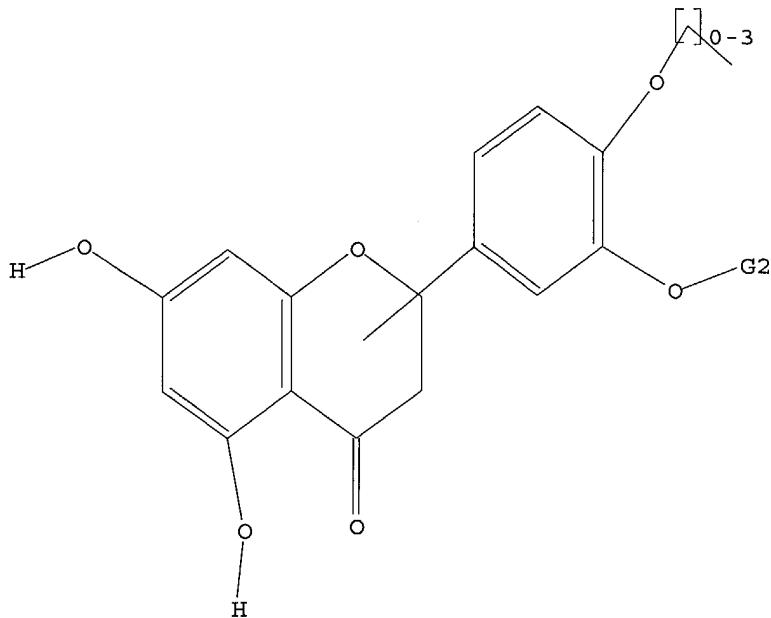
Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>
Uploading 09890479c.str

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR

09890479



G1 H, S, P

G2 S, P

Structure attributes must be viewed using STN Express query preparation.

```
=> s 11 sss sam
SAMPLE SEARCH INITIATED 20:05:48 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 150 TO ITERATE
```

```
100.0% PROCESSED 150 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01
```

```
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2266 TO 3734
PROJECTED ANSWERS: 0 TO 0
```

L2 0 SEA SSS SAM L1

```
=> s 11 full
FULL SEARCH INITIATED 20:05:52 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3329 TO ITERATE
```

```
100.0% PROCESSED 3329 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01
```

L3 3 SEA SSS FUL L1

```
=> fil caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST ENTRY SESSION
148.15 148.36
```

09890479

FILE 'CAPLUS' ENTERED AT 20:05:56 ON 11 JUL 2003
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FILE COVERS 1907 - 11 Jul 2003 VOL 139 ISS 3
FILE LAST UPDATED: 10 Jul 2003 (20030710/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s 13 full
L4          2 L3

=> d 14 1-2 ibib as hitstr
'AS' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'
```

The following are valid formats:

```
ABS ----- GI and AB
ALL ----- BIB, AB, IND, RE
APPS ----- AI, PRAI
BIB ----- AN, plus Bibliographic Data and PI table (default)
CAN ----- List of CA abstract numbers without answer numbers
CBIB ----- AN, plus Compressed Bibliographic Data
DALL ----- ALL, delimited (end of each field identified)
DMAX ----- MAX, delimited for post-processing
FAM ----- AN, PI and PRAI in table, plus Patent Family data
FBIB ----- AN, BIB, plus Patent FAM
IND ----- Indexing data
IPC ----- International Patent Classifications
MAX ----- ALL, plus Patent FAM, RE
PATs ----- PI, SO
SAM ----- CC, SX, TI, ST, IT
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
                      SCAN must be entered on the same line as the DISPLAY,
                      e.g., D SCAN or DISPLAY SCAN)
STD ----- BIB, IPC, and NCL

IABS ----- ABS, indented with text labels
IALL ----- ALL, indented with text labels
IBIB ----- BIB, indented with text labels
IMAX ----- MAX, indented with text labels
ISTD ----- STD, indented with text labels

OBIB ----- AN, plus Bibliographic Data (original)
```

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OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

HIT ----- Fields containing hit terms
HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)
containing hit terms
HITRN ----- HIT RN and its text modification
HITSTR ----- HIT RN, its text modification, its CA index name, and
its structure diagram
HITSEQ ----- HIT RN, its text modification, its CA index name, its
structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
structure diagram, plus NTE and SEQ fields
KWIC ----- Hit term plus 20 words on either side
OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.

ENTER DISPLAY FORMAT (BIB):bib

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
AN 2000:535149 CAPLUS
DN 133:144903
TI Hesperitin pro-forms with enhanced bioavailability, their preparation, and
their therapeutic use
IN Zielinski, Jan E.
PA Zielinski Laboratory, USA
SO PCT Int. Appl., 23 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1
PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2000044757 A1 20000803 WO 2000-US1923 20000126
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
CA 2358967 AA 20000803 CA 2000-2358967 20000126
EP 1155021 A1 20011121 EP 2000-904573 20000126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

09890479

IE, SI, LT, LV, FI, RO
JP 2002535410 T2 20021022 JP 2000-596013 20000126
PRAI US 1999-117567P A2 19990127
US 1999-118198P A2 19990201
WO 2000-US1923 W 20000126

OS MARPAT 133:144903

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
AN 1977:439056 CAPLUS
DN 87:39056
TI Dihydrochalcone sweeteners. Synthesis and sensory evaluation of sulfonate derivatives
AU DuBois, Grant E.; Crosby, Guy A.; Stephenson, Rebecca A.; Wingard, Robert E., Jr.
CS Chem. Synth. Lab., Dynapol, Palo Alto, CA, USA
SO Journal of Agricultural and Food Chemistry (1977), 25(4), 763-72
CODEN: JAFCAU; ISSN: 0021-8561
DT Journal
LA English

=> d 14 1-2 ibib abs hitstr

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2000:535149 CAPLUS
DOCUMENT NUMBER: 133:144903
TITLE: Hesperitin pro-forms with enhanced bioavailability, their preparation, and their therapeutic use
INVENTOR(S): Zielinski, Jan E.
PATENT ASSIGNEE(S): Zielinski Laboratory, USA
SOURCE: PCT Int. Appl., 23 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000044757	A1	20000803	WO 2000-US1923	20000126
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2358967	AA	20000803	CA 2000-2358967	20000126
EP 1155021	A1	20011121	EP 2000-904573	20000126
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
JP 2002535410	T2	20021022	JP 2000-596013	20000126
PRIORITY APPLN. INFO.:			US 1999-117567P	A2 19990127
			US 1999-118198P	A2 19990201
			WO 2000-US1923	W 20000126

09890479

OTHER SOURCE(S): MARPAT 133:144903

AB Hydrophilic and lipophilic hesperitin pro-forms are provided. A pharmaceutical compn. is provided which is suitable for topical or oral administration in an individual, the compn. comprising a hydrophilic hesperitin pro-form and a pharmaceutically acceptable carrier. A pharmaceutical compn. is also provided which is suitable for topical or oral administration in an individual, the compn. including a lipophilic hesperitin pro-form and a pharmaceutically acceptable carrier. A method is provided for treating a subject having or at risk of having a cell proliferative disorder, including administering to the subject a therapeutically effective amt. of a hesperitin pro-form.

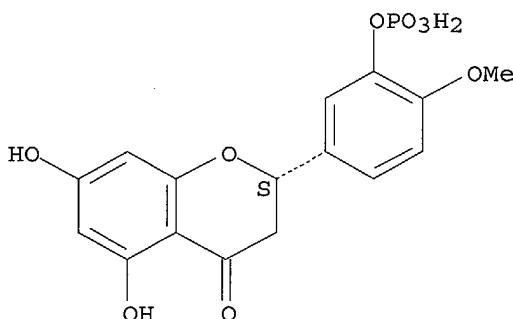
IT 287109-34-6P 287109-36-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(hesperitin pro-forms with enhanced bioavailability, prepn., and therapeutic use)

RN 287109-34-6 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-2-[4-methoxy-3-(phosphonoxy)phenyl]-, monosodium salt, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

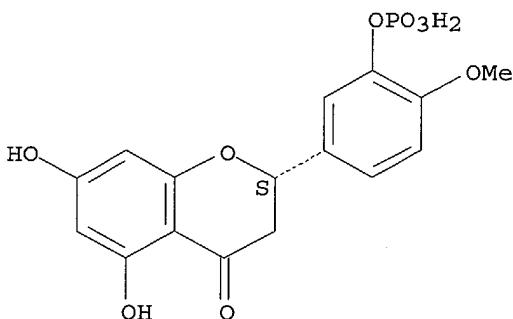


● Na

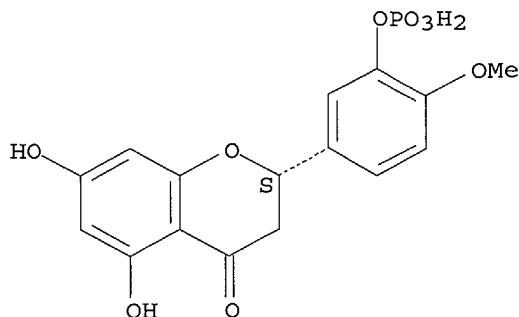
RN 287109-36-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-2-[4-methoxy-3-(phosphonoxy)phenyl]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

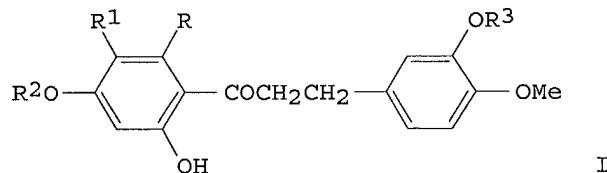


09890479



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1977:439056 CAPLUS
DOCUMENT NUMBER: 87:39056
TITLE: Dihydrochalcone sweeteners. Synthesis and sensory evaluation of sulfonate derivatives
AUTHOR(S): DuBois, Grant E.; Crosby, Guy A.; Stephenson, Rebecca A.; Wingard, Robert E., Jr.
CORPORATE SOURCE: Chem. Synth. Lab., Dynapol, Palo Alto, CA, USA
SOURCE: Journal of Agricultural and Food Chemistry (1977), 25(4), 763-72
CODEN: JAFCAU; ISSN: 0021-8561
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

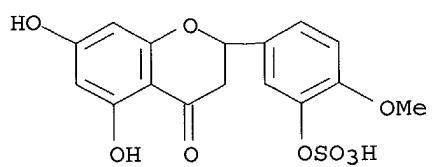
AB Hesperetin was cleaved and O-alkylated, sulfonated, and sulfomethylated to give fourteen dihydrochalcones I [R = OH, H, OMe, OCH₂Ph, O(CH₂)₃SO₃K; R¹ = H, SO₃Na, CH₂SO₃K; R² = .omega.-sulfoalkyl (alkali salt), H; R³ = H, SO₃Na], which showed their usefulness as sweeteners.

IT 63240-72-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and ring cleavage of)

RN 63240-72-2 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-2-[4-methoxy-3-(sulfooxy)phenyl]-, monosodium salt (9CI) (CA INDEX NAME)

09890479



● Na